$$H_2N$$

FIG. 5

$$H_2N \longrightarrow_{m} H \longrightarrow_{n} NHR$$

2, R = C(0) OChol
3, R = H
FIG. 6

$$H_2N \xrightarrow{H} \underset{m}{\longrightarrow} \underset{n}{\longrightarrow} \underset{$$

Scheme 4 Reagents and conditions: i, a, THF (0.5M), 4 Å molecular sieves, PMe3 (1.15 eqv), 30 min; b, 9 (1.1 eqv), 3h; c, EtOH (0.5M),

NaBH $_4$ (2 eqv), 20 h; ii, EtOH (0.2M), c-C $_6$ H $_{10}$ (20 eqv), 10% Pd(C)

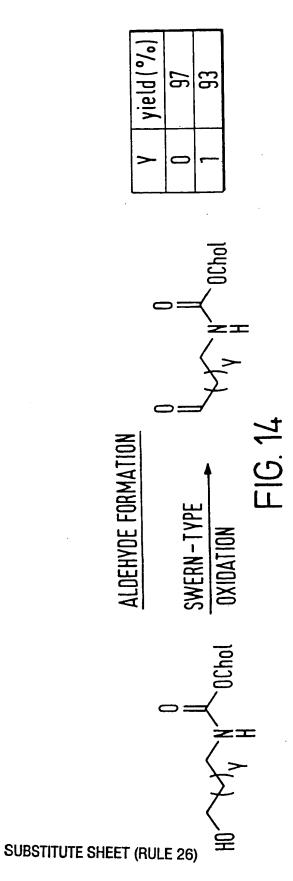
(0.5 eqv), reflux, 30 min

2,	က	7	66
2e	7	7	66
2d	-	7	66
2c	3	÷	66
2b	2	-	66
2a		-	66
10f	3	2	06
10a 10b 10c 10d 10e	2	2	87
10d	-	2.	83
10c	က	-	89
10b	2	-	72
10a	-	-	79
	E	۵	YIELD / %

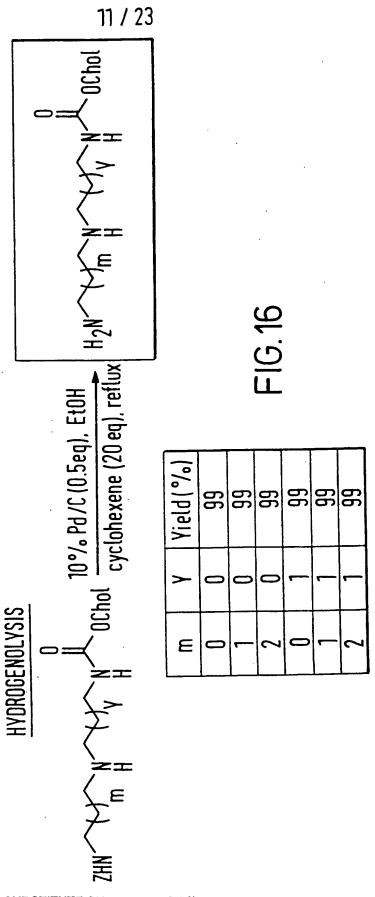
Table 3

i) MeSO2C1 (2.5 eq), NEt3 (3 eq), DCM, 0°C, 0.3 hrs; ii) NaN3 (5 eq), NaI (1 eq), DMF, 80°C, 2 hrs m = 0.1, 2i) PPh3 (2 eq). DIPAD (2 eq). ZnN6•2 Py (0.75 eq), toluene, 2 hrs AZIDE FORMATION Overall yield (°/。) yield (%) 982 39 Ε E

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Vield (%)	79	72	68	83	87	90	
>	0	0	0	l	l	ļ	e I
E	0	-	-2	0		7	
+	- PMe3	: W,		FIG 13)		



SUBSTITUTE SHEET (RULE 26)

m, n = 0,1,2

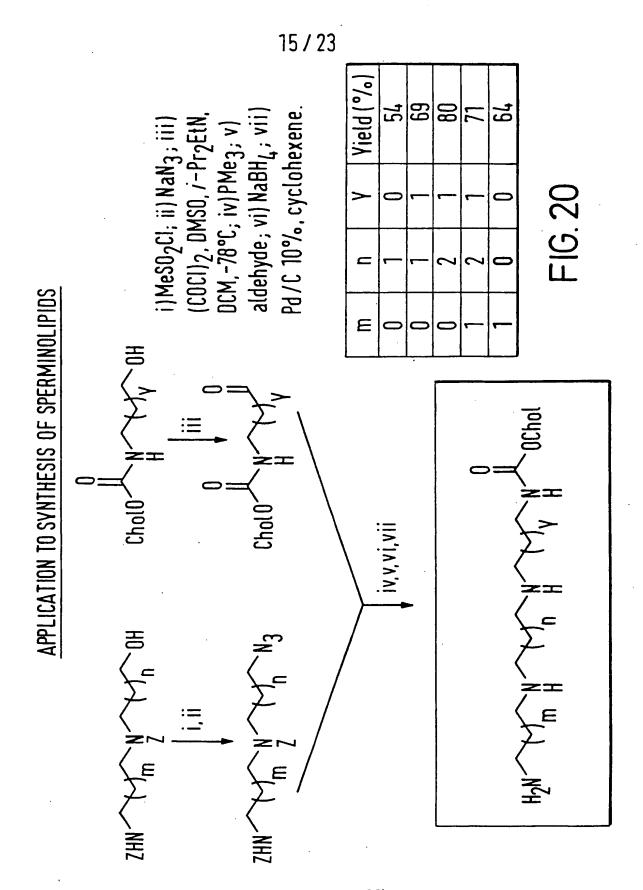
1) MeSO₂CI (2.5 eq), NEt₃ (3 eq), DCM, O°C, O.3 hrs, ii) NaBr (5 eq), NaI (1 eq), DMF, 80°C, 2 hrs; iii) K_2CO_3 (2 eq), NaI (0.3 eq), $H_2NC(CH_2)_nOH$ (5 eq), DMF, 24-72 hrs; iv) Ph0COCI (1.1 eq),

NEt₃ (2.5 eq), DCM, 6hrs

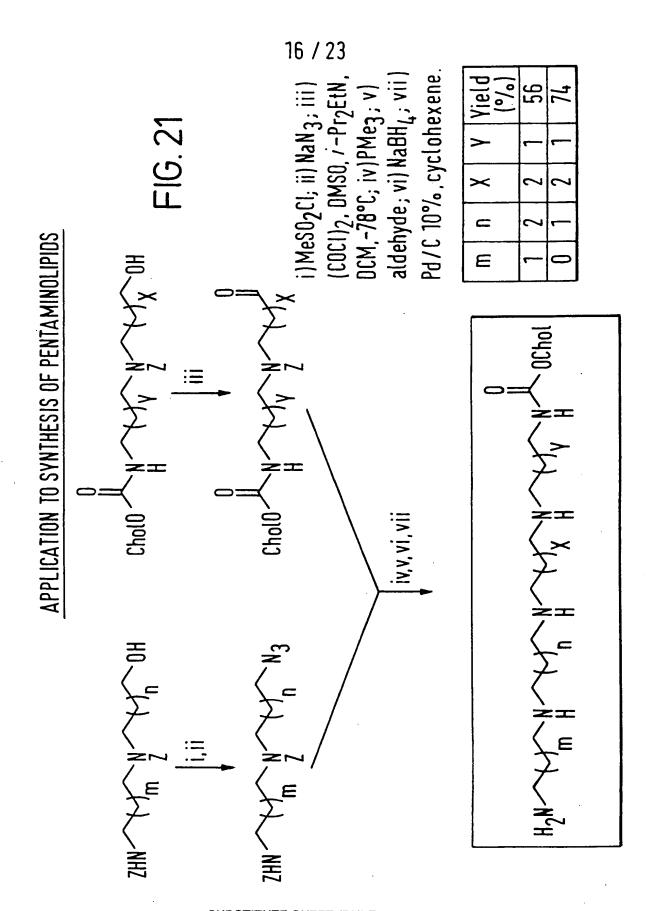
FIG. 18

OVERALL VIELDS 74-88%

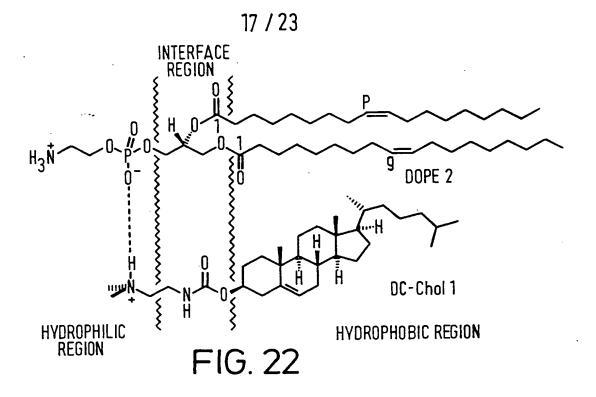
ZHN
$$\longrightarrow$$
 N \longrightarrow N \longrightarrow OH \longrightarrow ZHN \longrightarrow N \longrightarrow OH \longrightarrow I) TBDPS-CI (1.5 eq), NEt₃ (3 eq), cat, DMAP, DCM, 4-6 hrs, ii) Ph0COCI (1.5 eq), NEt₃ (2.5 eq), DCM, 4-6 hrs, iii) TBAF (1 eq), THF, 1-2 hrs \longrightarrow FIG. 19



SUBSTITUTE SHEET (RULE 26)



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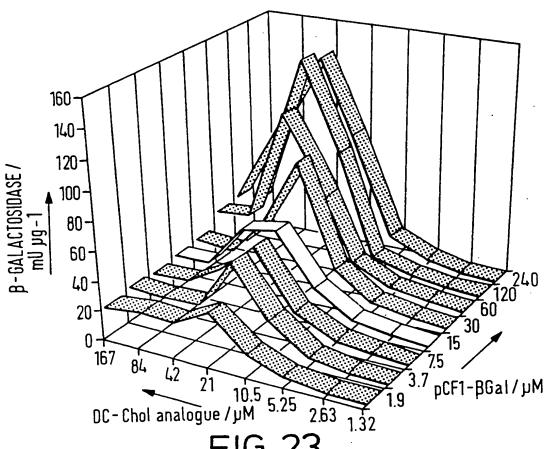
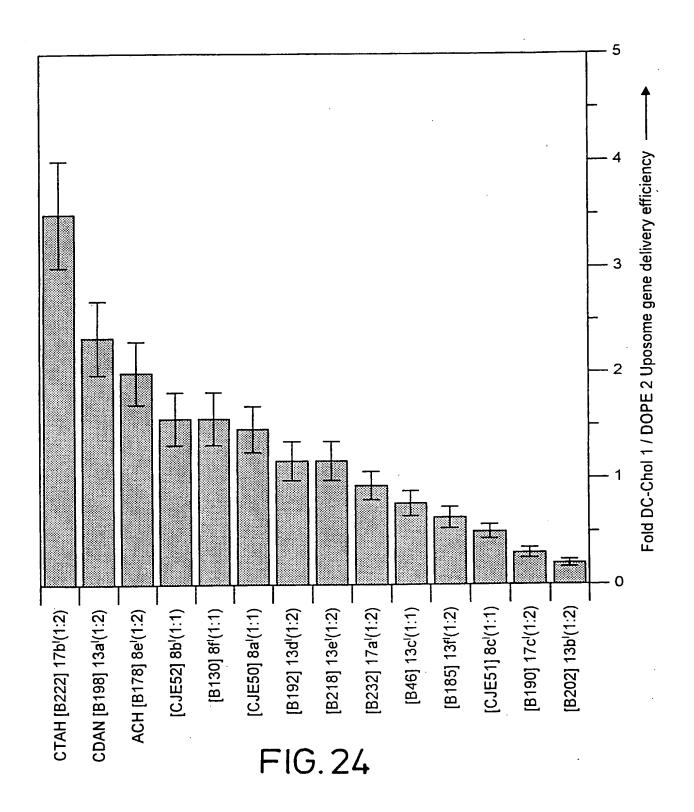
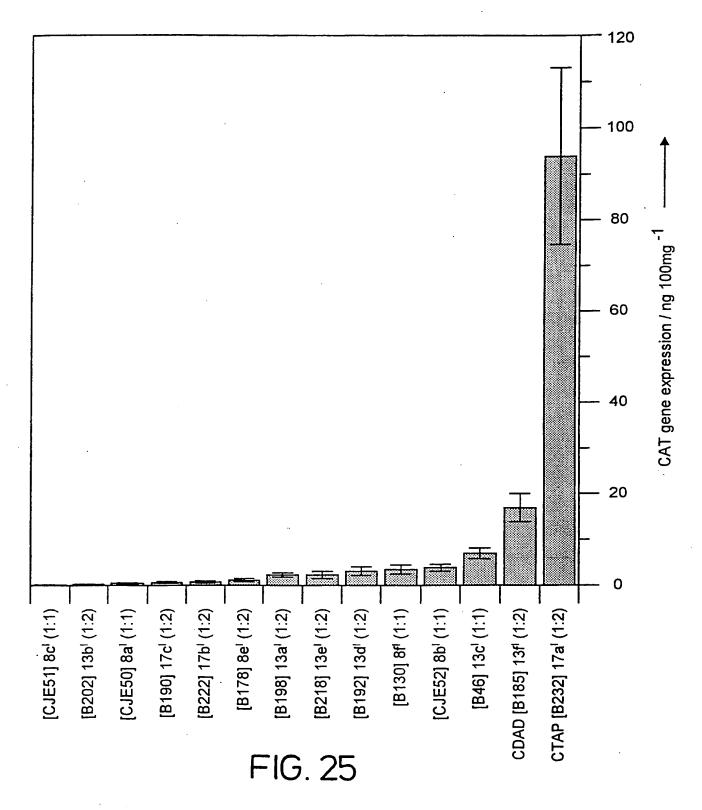


FIG. 23 SUBSTITUTE SHEET (RULE 26)



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$$H_2N \longrightarrow_{n} N \longrightarrow_{m} NH_2$$
 $18^1 n = 3; m = 2$

$$H_2N \leftrightarrow_0 N \leftrightarrow_1 N \leftrightarrow_2 N$$

FIG. 29